

## Appendices

# Appendix E: Research Training and Graduate Medical Education Data

### NATIONAL RESEARCH SERVICE AWARD (NRSA) AND NATIONAL LIBRARY OF MEDICINE (NLM) RESEARCH TRAINING PROGRAMS

Ph.D.s Awarded to NIH Trainees and Fellows		
Field of Study	FY 2007	FY 2008
<b>Life Sciences</b>	<b>2,192</b>	<b>2,369</b>
<i>Biological/Biomedical Sciences</i>	<i>1,943</i>	<i>2,120</i>
Biochemistry	188	218
Biomedical Sciences	68	72
Biophysics	64	49
Biotechnology	4	2
Bacteriology	8	4
Plant Genetics	5	7
Botany/Plant Biology	6	4
Anatomy	2	2
Bioinformatics	14	25
Biometrics & Biostatistics	25	19
Cell/Cellular Biology and Histology	131	133
Cancer Biology	43	121
Ecology	15	1
Developmental Biology/Embryology	77	69
Endocrinology	5	6
Entomology	2	2
Immunology	160	183
Molecular Biology	203	202
Microbiology	150	161
Neuroscience	327	359
Nutritional Sciences	24	19

Parasitology	6	9
Toxicology	41	46
Genetics, Human & Animal	137	147
Pathology, Human & Animal	21	37
Pharmacology, Human & Animal	96	100
Physiology, Human & Animal	64	59
Zoology, Other	1	3
Biology/Biological Sciences, General	37	28
Biology/Biomedical Sciences, Other	15	14
<i>Health Sciences</i>	<i>238</i>	<i>240</i>
Speech-Language Pathology & Audiology	9	12
Environmental Health	4	10
Environmental Toxicology	2	7
Health Systems/Service Administration	5	3
Public Health	39	35
Epidemiology	60	65
Kinesiology/Exercise Sciences	8	13
Nursing Science	56	60
Rehabilitation/Therapeutic Services	4	2
Veterinary Medicine	4	4
Health Sciences, General	4	3
Health Sciences, Other	22	11
<i>Agricultural Sciences/Natural Resources</i>	<i>11</i>	<i>9</i>
Agricultural Economics	1	1
Agricultural Science, Other	1	0
Plant Sciences, Other	0	2
Environmental Science	0	3
Forest/Resources Management	1	
<b>Social Sciences</b>	<b>300</b>	<b>288</b>
<i>Psychology</i>	<i>235</i>	<i>224</i>
Clinical	81	96
Cognitive & Psycholinguistics	28	16

Counseling	2	6
Developmental & Child	24	26
Human Development & Family Studies	6	5
Experimental	14	10
Educational	2	
Industrial & Organizational	1	1
Personality	10	1
Physiological/Psychobiology	26	14
Psychometrics & Quantitative	7	0
School	1	2
Social	19	24
Psychology, General	9	12
Psychology, Other	7	10
<i>Social Sciences</i>	<b>65</b>	<b>64</b>
Anthropology	13	5
Demography/Population Studies	3	6
Economics	8	14
Public Policy Analysis	5	7
Sociology	23	20
Social Sciences, Other	5	0
<b>Physical Sciences</b>	<b>115</b>	<b>139</b>
<i>Chemistry</i>	<b>67</b>	<b>85</b>
Analytical	15	12
Inorganic	5	5
Organic	24	31
Medicinal/Pharmaceutical	1	0
Physical	6	10
Polymer	1	1
Theoretical	2	4
Chemistry, General	3	7
Chemistry, Other	10	15
<i>Computer Sciences</i>	<b>11</b>	<b>11</b>

Computer Science	10	8
Computer & Information Sciences, Other	1	2
<i>Geological &amp; Earth Sciences</i>	1	
Geology	1	
<i>Mathematics</i>	12	12
Applied Mathematics	1	4
Geometry/Geometric Analysis	3	0
Statistics	5	6
Mathematics/Statistics, General	1	
Mathematics/Statistics, Other	0	1
<i>Ocean/Marine Sciences</i>	2	0
Marine Sciences	1	0
Oceanography, Chemical and Physical	1	0
<i>Physics</i>	23	31
Optics/Phototonics	1	1
Polymer Physics	1	0
Condensed Matter/Low Temperature	2	1
Physics, General	1	1
Physics, Other	3	4
<b>Engineering</b>	<b>143</b>	<b>174</b>
Aerospace, Aeronautical & Astronautical	2	1
Bioengineering & Biomedical	99	130
Chemical	27	30
Computer	0	1
Electrical, Electronics and Communications	7	6
Environmental Health Engineering	3	1
Industrial & Manufacturing	1	0
Materials Science	1	
Mechanical	3	2
<b>Education</b>	<b>18</b>	<b>13</b>
<b>Humanities</b>	<b>7</b>	<b>3</b>
<b>Other Fields</b>	<b>26</b>	<b>17</b>

TOTAL	2,801	3,003
Note: Detailed field data are provided only for broad fields with $\geq 100$ Ph.D. recipients		
Sources: NIH IMPAC II and the Doctorate Records File.		

Demographic Characteristics* of NRSA Participants		
Gender	FY 2007	FY 2008
Female	51.5%	51.5%
Male	45.8%	45.9%
Unreported	2.6%	2.6%
Race/Ethnicity		
White	67.2%	66.0%
Asian	15.0%	14.9%
Hispanic	6.7%	7.0%
African American	8.3%	7.6%
Native American	1.0%	1.0%
Pacific Islander	0.7%	0.7%
Unreported	5.9%	7.9%

Sources: NIH IMPAC II

\*Reporting personal information such as sex, race, and ethnicity is voluntary.

#### GRADUATE MEDICAL EDUCATION: NIH-SPONSORED, ACGME-ACCREDITED, RESIDENCY AND SUBSPECIALTY TRAINING PROGRAMS

Successfully Completed Residency and Subspecialty Training By Academic Year		
NIH Clinical Center Program Specialty	Successfully Completed	
	2007/2008	2008/2009
Allergy and Immunology	4	3
Medical Genetics	4	1
Medical Biochemical Genetics	0	2
Critical Care Medicine	4	3
Endocrinology, Diabetes, and Metabolism	6	4
Hematology	3	4
Infectious Disease	3	4
Oncology	13	9
Rheumatology	2	4

Pathology-Anatomic and Clinical	4	3
Blood Banking/Transfusion Medicine	1	2
Cytopathology	1	1
Hematology (Pathology)	1	2
NICHD/Georgetown University Hospital Program / Pediatric Endocrinology*	2	3
Psychiatry	1	2
<b>Total</b>	<b>49</b>	<b>47</b>

\*Cosponsored by NICHD and Georgetown University Hospital

Source: AAMC GME Track Database